Muhammad Zubair **Test Performed By:** **Dr. /Engr.** Nauman Khurram

RE-1 ACES NLC Camp-DHA Multan.(Civil Infrastructure Dev Works DHA Multan)

Client Reference: ACES/DHAM-NLC-671 **SOM Lab Ref:** 1684 (Page-1/1)

Dated: 23-01-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (SJ Steel)

Gauge Length: 8 inch **Sample Type:**

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.673	4	0.502	0.20	0.198	6.42	8.02	70820	71540	88470	89360	1.20	8.0	15.0	
2	0.675	4	0.502	0.20	0.198	6.34	7.97	69920	70630	87910	88790	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Raja Muhammad Aqeel **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Astt Dir.Building Section DHA Gujranwala.(Const Of Villas Block-D)

Client Reference: 111/3/AD Bldgs/Gen/32 **SOM Lab Ref:** 1686 (Page-1/1)

Dated: 01-02-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (Sj Steel)

Gauge Length: 8 inch **Sample Type:**

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.662	4	0.498	0.20	0.195	6.75	8.56	74420	76320	94420	96850	1.20	8.0	15.0	
2	0.649	4	0.493	0.20	0.191	6.78	8.72	74750	78280	96110	100640	1.30	8.0	16.3	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Syed Mohsin Ali RE **Test Performed By:** **Dr. /Engr.** Nauman Khurram

QA/QC Deptt.Bahria Town Lhr.(O.H.W.T Sector G Bahria Multan Road Lahore)

Client Reference: QA/QC/Steel-2992 **SOM Lab Ref:** 1687 (Page-1/1)

Dated: 31-01-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (FF Steel)

Gauge Length: 8 inch **Sample Type:**

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.665	8	0.998	0.79	0.783	24.52	33.71	68440	69060	94110	94950	1.50	8.0	18.8	
2	2.659	8	0.997	0.79	0.781	26.66	35.75	74420	75280	99800	100950	1.40	8.0	17.5	
3	1.527	6	0.756	0.44	0.449	16.53	20.51	82880	81220	102800	100740	1.10	8.0	13.8	
4	1.522	6	0.754	0.44	0.447	16.26	20.66	81500	80220	103570	101950	1.30	8.0	16.3	
5	0.681	4	0.505	0.20	0.200	6.03	8.12	66550	66550	89590	89590	1.40	8.0	17.5	
6	0.670	4	0.501	0.20	0.197	5.98	8.02	65990	66990	88470	89810	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Executive Block)

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: 111/15/AD/RS/Exec B/101
Dated: 31-01-2023

SOM Lab
Ref: 1688 (Page-1/1)
Dated: 01-02-2023

Test: Tension Test & Bend Test
Test Specification: ASTM-A-615 Deformed Bar (SJ Steel)

Gauge Length: 8 inch
Sample Type:

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	7.24	8.53	79810	81030	94090	95520	1.20	8.0	15.0	
2	0.665	4	0.498	0.20	0.195	7.54	9.73	83180	85320	107350	110100	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muddasir Ali
Lahore.

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: Nil
Dated: 01-02-2023

SOM Lab Ref: 1689 (Page-1/1)
Dated: 01-02-2023

Test: Tension Test & Bend Test
Test Specification: ASTM-A-615 Deformed
Gauge Length: 8 inch
Sample Type: Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	6.34	8.41	69920	70990	92740	94150	1.20	8.0	15.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional officer,

Test Performed By: **Dr. /Engr.** Nauman Khurram

BSD No.12,Lhr.(Estb Of Govt Technical Traning Institute For Women Sabzazar Lahore)

Client Reference: 31

Dated: 26-01-2023

SOM Lab Ref: 1690(Page-1/3)

Dated: 01-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615 Deformed

Gauge Length: 8 inch

Sample Type: Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.638	8	0.993	0.79	0.775	26.17	35.14	73050	74470	98100	99990	1.60	8.0	20.0	
2	2.642	8	0.994	0.79	0.776	24.74	32.82	69070	70320	91640	93290	1.60	8.0	20.0	
3	1.474	6	0.743	0.44	0.433	14.37	19.32	72050	73210	96830	98390	1.30	8.0	16.3	
4	1.472	6	0.743	0.44	0.433	14.27	19.39	71540	72690	97180	98750	1.40	8.0	17.5	
5	0.671	4	0.501	0.20	0.197	6.19	8.48	68230	69270	93530	94950	1.20	8.0	15.0	
6	0.674	4	0.502	0.20	0.198	6.17	8.48	68010	68700	93530	94470	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram

BSD No.22,Lhr.(Const Of Population Welfare House Punjab at Lahore)

Client Reference: 09/22nd **SOM Lab Ref:** 1690(Page-2/3)

Dated: 25-01-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed

Gauge Length: 8 inch **Sample Type:** Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.642	8	0.994	0.79	0.776	26.01	34.96	72630	73940	97610	99370	1.50	8.0	18.8	
2	2.640	8	0.994	0.79	0.776	25.96	35.02	72480	73790	97750	99520	1.60	8.0	20.0	
3	1.472	6	0.743	0.44	0.433	14.27	19.39	71540	72690	97180	98750	1.30	8.0	16.3	
4	1.470	6	0.742	0.44	0.432	14.34	19.49	71890	73220	97690	99500	1.30	8.0	16.3	
5	0.668	4	0.500	0.20	0.196	6.60	8.87	72730	74210	97800	99790	1.20	8.0	15.0	
6	0.670	4	0.501	0.20	0.197	6.65	8.87	73290	74410	97800	99290	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram

BSD No.22,Lhr.(Const Of Population Welfare House Punjab at Lahore)

Client Reference: 11/22nd **SOM Lab Ref:** 1690(Page-3/3)

Dated: 26-01-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed

Gauge Length: 8 inch **Sample Type:** Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.639	8	0.994	0.79	0.776	26.07	35.09	72770	74080	97950	99720	1.30	8.0	16.3	
2	2.639	8	0.994	0.79	0.776	26.17	35.12	73050	74370	98040	99810	1.20	8.0	15.0	
3	1.476	6	0.743	0.44	0.434	14.39	19.52	72150	73150	97850	99200	1.40	8.0	17.5	
4	1.475	6	0.743	0.44	0.433	14.53	19.49	72810	73990	97690	99270	1.30	8.0	16.3	
5	0.674	4	0.502	0.20	0.198	6.09	8.43	67110	67790	92960	93900	1.20	8.0	15.0	
6	0.675	4	0.502	0.20	0.198	6.24	8.48	68800	69490	93530	94470	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engr. Hassan Mehmood **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
RE G3 Engg Consult.(Const.of DHA Newlife Residency Appartments at 273/1Q Block Ph-II DHA.Lhr)

Client Reference: G3/DHA-NLD/RE/131 **SOM Lab Ref:** 1691 (P-1/1)
Dated: 31-01-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (AF Steel)

Gauge Length: 8 inch **Sample Type:**

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.670	8	1.000	0.79	0.785	23.87	36.90	66650	67080	103020	103670	1.30	8.0	16.3	
2	2.668	8	0.999	0.79	0.784	22.53	32.41	62890	63380	90470	91160	1.50	8.0	18.8	
3	2.670	8	1.000	0.79	0.785	22.75	32.44	63520	63930	90550	91130	1.50	8.0	18.8	
4	1.502	6	0.749	0.44	0.441	14.07	18.93	70510	70350	94880	94670	1.40	8.0	17.5	
5	1.509	6	0.751	0.44	0.443	14.37	19.27	72050	71560	96570	95920	1.40	8.0	17.5	
6	1.519	6	0.754	0.44	0.446	15.01	19.47	75210	74200	97590	96280	1.20	8.0	15.0	
7	0.668	4	0.500	0.20	0.196	6.98	8.66	77000	78570	95550	97500	1.10	8.0	13.8	
8	0.670	4	0.501	0.20	0.197	7.03	8.89	77560	78750	98020	99510	1.00	8.0	12.5	
9	0.671	4	0.501	0.20	0.197	6.80	8.56	74980	76120	94420	95860	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Creative Constructors **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Lahore.(Admin Block and MV Room Starch Pack (Pvt) Ltd)

SOM Lab

Client Reference: Nil **Ref:** 1692 (Page-1/1)

Dated: 01-02-2023 **Dated:** 01-02-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.667	4	0.500	0.20	0.196	6.73	8.82	74190	75710	97230	99220	1.20	8.0	15.0	
2	0.666	4	0.500	0.20	0.196	6.75	8.84	74420	75940	97460	99450	1.30	8.0	16.3	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Test Performed By: S. Asad Ali Gillani

Muhammad Zubair
Resident Engineer-1,
ACES NLC Camp-DHA Multan.

(Civil Infrastructure Dev Works Pkg-01 & Pkg-02, DHA Multan)

Client Reference: ACES-DHAM-NLC-674 Dated: 23-01-2023
SOM Laboratory Reference: CED/SOM/1685(Page-1/1) Dated: 01-02-2023
Test: Compressive Strength Tests
Sample Type: CAT – EYES
Test Specification: ASTM-D4280

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Compression Load (Kg)
1	Yellow Cat-Eyes	72.0 x 44.5	101.0 x 89.1	15.6	31.37°	21407

Note: Please always confirm the results of above report on web: www.uet-civil.edu.pk